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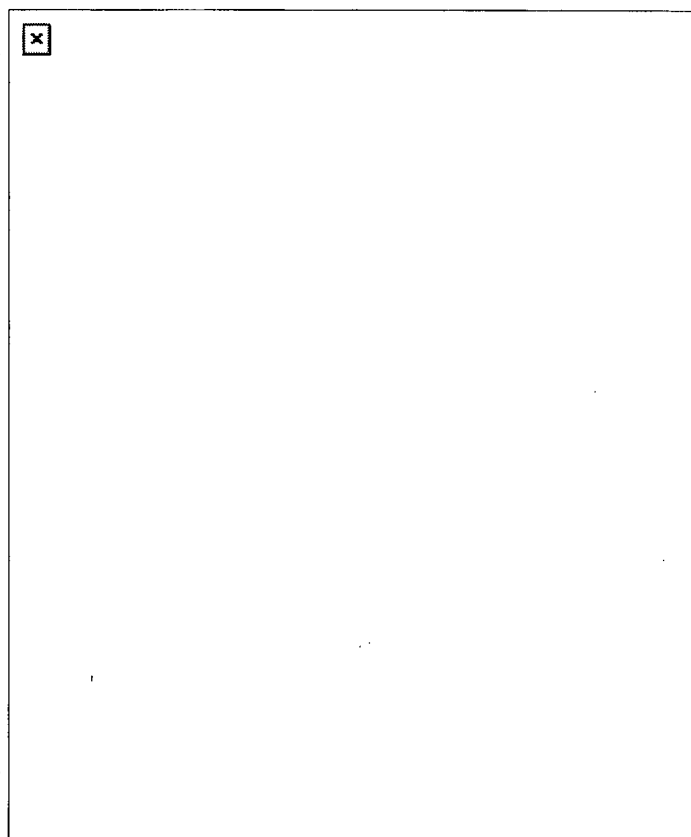
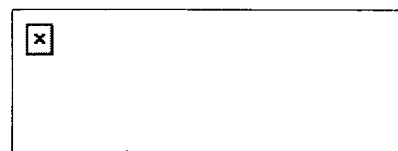
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11/15/2001 - Research Engineers International was placed on the approved supplier list for Utility Engineering
11/14/2001 - netGuru Reports Second Quarter Results
10/23/2001 - REI's new OpenSTAAD technology to customize STAAD.Pro
10/22/2001 - REI now offers a powerful set of training options to help you become an advanced <b>STAAD.Pro</b> user in no time!
10/19/2001 - Six Bridges, designed using STAAD, received awards at the 2001 NSBA Prize Bridge Competition

## New 4.0 Modules:

1. [Combined Footing](#)
2. [ASCE 7-95 Wind Load Generator](#)
3. [New Base Plate](#)

## Combined Footing

- Considers Rectangular, Trapezoid and Strip-Shaped Footings
- Columns can be Rectangular or Circular Sections
- Determines footing dimensions (length, width and thickness)
- Calculates the Bending Moment and Shear (one way action)
- Calculates the punching strength of concrete footing (two way action)
- Calculates the required longitudinal and reinforcements



- ☐ New
- ☐ Intro
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- ☐ Com
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- ☐ Fou
- ☐ Mas
- ☐ Misc
- ☐ Pos
- ☐ Stee
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- ☐ Timb

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- ☐ Onli
- ☐ Hard
- ☐ Soft

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- ☐ Disc
- ☐ FAQ
- ☐ Rev
- ☐ Soft
- ☐ Soft

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- ☐ Dow
- ☐ Live
- ☐ Req
- ☐ Soft

- ☐ Home
- ☐ Demos / Tutorials
- ☐ ISO 9001
- ☐ Live Demo
- ☐ Newsletters
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- ☐ netGuru, Inc.

(NASDAQ:NGRU)

## ASCE 7-95 Wind Load Generator

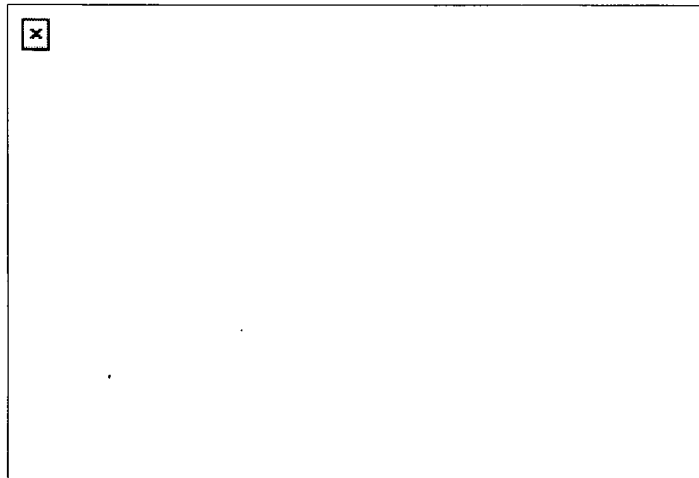
Handles main wind-force resisting systems including Calculates the wind

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a putting-green drops into the depression R, representing a river or stream, then the usual penalty is inflicted on the player, it being understood that the game is played according to the rules governing ordinary golf, the final object being to make the several putting-greens in proper succession with the least number of propelling strokes given to the counter, the same as that of a ball driven on the golf-links by a club.  
 From the foregoing it is evident that the game affords considerable amusement to the player or players and at the same time requires considerable skill to successfully play the game with the least number of propelling strokes given to the counter G.  
 Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—  
 1. A game apparatus comprising a board having a hole, a plain-surfaced putting-green surrounding said hole, and a feeling-ground between the feeling-ground and the putting-green, and a counter, whereby the counter must be propelled through the air from the feeling-ground onto the putting-ground and can be slid from the putting-green into the holes by the manipulation of the board, substantially as described.  
 2. A game apparatus, comprising a board having holes, plain-surfaced putting-greens surrounding said holes, and feeling-grounds, said board having hazards between certain of the holes, substantially as described.  
 3. A game apparatus, comprising a board, substantially as described.  
 4. A game apparatus comprising a board having plain-surfaced putting-greens within which are holes, and feeling-grounds, said board having between certain of the putting-greens and feeling-grounds raised bunkers and a tortuous depression, and a counter whereby the counter must be propelled through the air from the feeling-grounds onto the putting-ground and can be slid from the putting-green into the holes by the manipulation of the board, substantially as described.  
 In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.  
 ANSON PHELPS STOKES, JR.  
 Witnesses:  
 JOHN AMER,  
 ELTA H. JONES.

**Handles main wind-force resisting systems including Calculates the wind loading for main wind-force resisting system, components and cladding of buildings and other structures.**

- Low-rise buildings
- Buildings of all heights
- Calculates wind loading at every floor level for multi-story buildings and wind pressure combination for full and partial loading of building with mean roof height  $h$  greater than 60 ft.
- Open buildings and other structures
- Chimneys, Tanks and Similar Structures
- Solid Signs and Open Signs
- Lattice Frameworks
- Trussed Towers
- Calculates Topographic Factor  $K_{zt}$  for building at ridge, escarpment and axisymmetrical hill
- Calculates Internal Pressure Coefficients for Buildings



#### **Considers Building Components and Cladding**

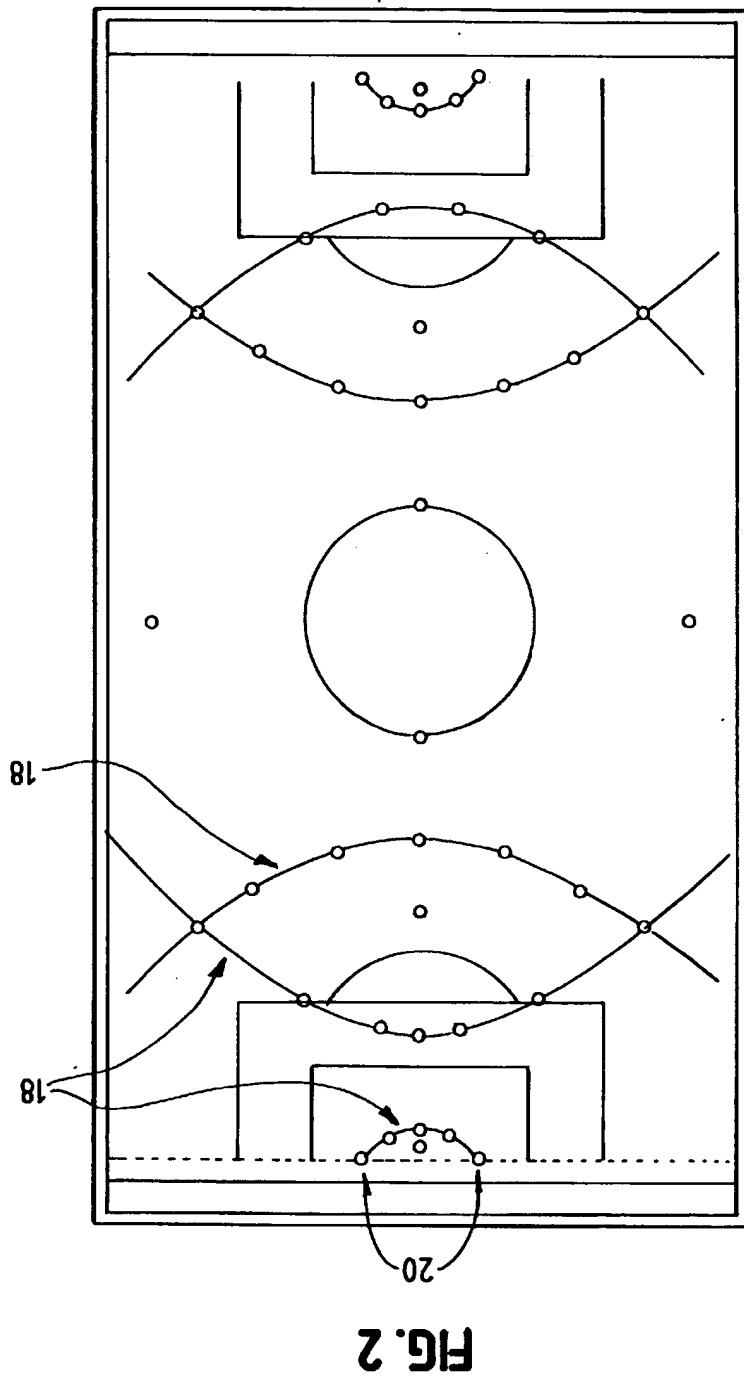
- Considers wall components and cladding for enclosed or partially enclosed buildings based on effective wind area and location
- Considers roof components and cladding for enclosed or partially enclosed buildings with the following roof types based on effective area and location:
  - Gabled roof
  - Hipped roof
  - Stepped roof
  - Multispan gabled roof
  - Monoslope roof
  - Sawtooth roof with two or more spans

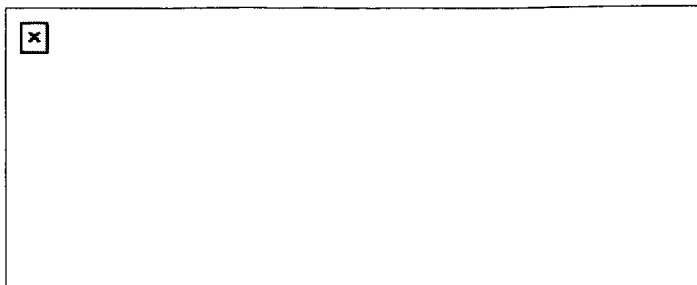
#### **Considers Flexible Buildings and Other Structures ( $f < 1$ Hz)**

- Calculates the Gust Effect Factor based on building dimensions, basic wind speed at reference height, type of exposure, building natural frequency and damping ratio

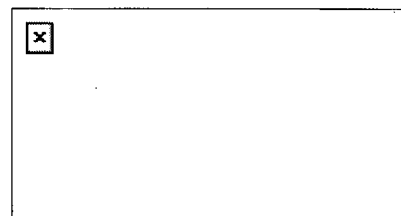
### **New Base Plate**

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- Apply axial loads, biaxial bending and shear loads in two directions
- Considers W, S, M, HP, tube, pipe and user-defined column cross sections
- Designs base plate with clip angles, stiffeners and brackets
- Analysis can be done assuming a rigid plate or using Finite Element Analysis Method (FEM)
- Calculates the capacity and buckling for stiffener plates and angles and the connection among column, stiffener and base-plate
- Full anchor bolt design performed including:
  - Checks the requirements for minimum embedded length and minimum embedded edge distance
  - Checks the requirements for clear spacing between column and bolts and between stiffener and bolts
  - Calculates the pulling capacity of anchor bolts
- Checks the Shear Loading and Designs for Shear Lugs if required



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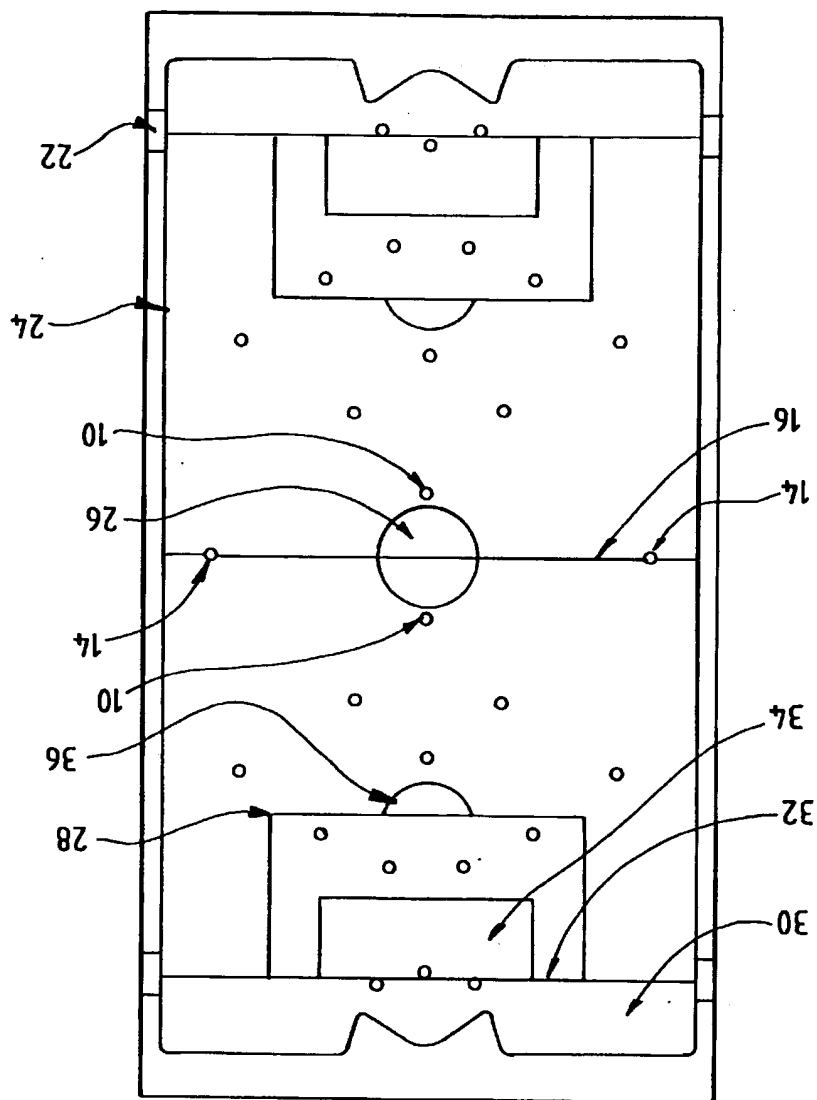
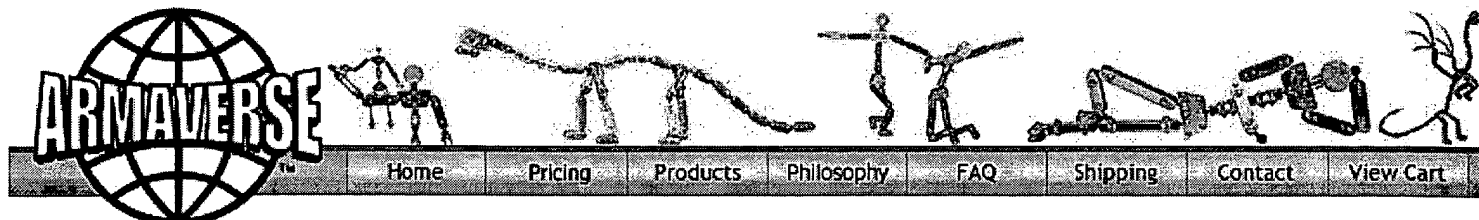




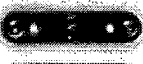











FIG. 1



# Phase 2 Individual Parts

There is an extremely limited Phase 2 inventory available on a first come, first serve basis. Although they're being discontinued, the Phase 2 kits and pieces will never be obsolete. All Armaverse Armature parts will always be completely interchangeable.

Parts are not shown actual size. Please [visit the PDF page](#) if you have any questions about Armaverse part dimensions.

 	<p><b>Short Plate - sold in pairs - \$14.00</b></p> <p>The shortest Phase 2 plate available - great for short limbs, long necks and long tails. All necessary screws and nuts are included with each pair.</p>
 	<p><b>Medium Plate - sold in pairs - \$14.00</b></p> <p>Often used in arms and legs - can be used instead of the long plates in the Phase 2 Humature to take an inch or so off. All necessary screws and nuts are included with each pair.</p>
 	<p><b>Long Plate - sold in pairs - \$14.00</b></p> <p>The longest Armaverse plate available. All necessary screws and nuts are included with each pair.</p>
 	<p><b>3-Dimpled Trapezoid Plate - sold in pairs - \$20.00</b></p> <p>Most often used as a human hip joint. All necessary screws and nuts are included with each pair.</p>
 	<p><b>4-Dimpled Trapezoid Plate - sold in pairs - \$20.00</b></p> <p>Used to create human shoulders and the hip and shoulder joints of any quadruped. All necessary screws and nuts are included with each pair.</p>
 	<p><b>Dumbbell - \$5.50</b></p> <p>The classic dumbbell that started it all. Used to attach pairs of Phase 2 plates together with perfect clearance for full range-of-motion.</p>
 	<p><b>Adaptor Dumbbell - \$7.75</b></p> <p>The exciting new adaptor that makes Phase 2 parts <u>interchangeable</u> with Phase 3 parts.</p>
	<p><b>Threaded Ball Bearings - \$2.00 each</b></p>

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5

positioned outside of said playing area and correspond-  
ing to each corner formed by said vertical sidewalls,  
and stationary defensive posts;

providing a game disk;

placing said game disk in one of said corner kick zones; 5  
and

6

propelling said game disk into said playing area.  
2. A method according to claim 1, wherein

each said corner kick zone comprises an area on one of  
said vertical sidewalls.

\* \* \* \* \*



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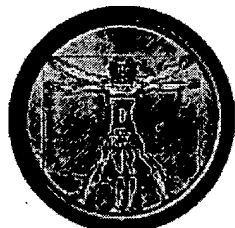
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These search terms have been highlighted: **trapezoidal base plate**



# Scientific Software

Fast Find

## Templates...



### ►► Analysis Tools

Beam  
Cantilever (Left)  
Cantilever (Right)  
Continuous Beam  
Encastre Beam  
Frame  
Influence Lines  
Propped Cantilever (Left)  
Propped Cantilever (Right)  
Sub-Frame  
Truss

### ►► Concrete - BS8110: 1985 Checks

Beam - flanged (L) - Moment Capacity  
Beam - flanged (L) - Shear Capacity  
Beam - flanged (T) - Moment Capacity  
Beam - flanged (T) - Shear Capacity  
Beam - rectangular - Moment Capacity  
Beam - rectangular - Shear Capacity  
Slab - rectangular solid - Moment Capacity  
Slab - rectangular solid - Shear Capacity  
Slab - ribbed - Moment Capacity  
Slab - ribbed - Shear Capacity  
Staircase - Moment Capacity  
Staircase - Shear Capacity

### ►► Loadings

Load cover sheet - suspended floor  
Load cover sheet - ground slab  
Load cover sheet - roof  
Load run down - maximum 7 levels  
Imposed roof and snow loads

### ►► Concrete - BS8110: 1997 Checks

Beam - flanged (L) - Moment Capacity  
Beam - flanged (L) - Shear Capacity  
Beam - flanged (T) - Moment Capacity  
Beam - flanged (T) - Shear Capacity  
Beam - rectangular - Moment Capacity  
Beam - rectangular - Shear Capacity  
Slab - rectangular solid - Moment Capacity  
Slab - rectangular solid - Shear Capacity  
Slab - ribbed - Moment Capacity  
Slab - ribbed - Shear Capacity  
Staircase - Moment Capacity  
Staircase - Shear Capacity

### ►► Composite - BS5950 (3.1): 1990 Checks

UB plastic moment capacity - profiled sheet deck slab  
UB plastic moment capacity - plain/haunched solid slab  
UB serviceability checks for propped beam with profiled desk slab  
UB serviceability checks for propped beam with solid slab  
UB serviceability checks for unpropped beam with profiled desk slab  
UB serviceability checks for unpropped beam with solid slab  
UC plastic moment capacity - profiled sheet deck slab  
UC plastic moment capacity - plain/haunched solid slab  
UC serviceability checks for propped beam with profiled desk slab

### ►► Concrete - BS8110: 1997 Design

Beam - flanged (L) - single span  
Beam - flanged (L) - multi span  
Beam - flanged (T) - single span  
Beam - flanged (T) - multi span  
Beam - rectangular solid - single span  
Beam - rectangular solid - multi span  
Beam - ribbed - single span

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